



AWARDS and HONORS

Anthony Lupo and **Alex Korner's** proposal, "A Study of Teleconnections for Generating Seasonal Range Forecast", has been selected to receive funding to travel to Bolivia. The CIP (CAFNR International Programs) Incentive Fund was established to stimulate international research, teaching and outreach collaboration in CAFNR. They will be collaborating with the Universidad Mayor de San Andres, Agriculture and the Institute of Environmental Engineering.



Vidya Balasubramanyam received the Tom & Muriel More Scholarships award at the National Environment and Recreation Research Symposium in recognition of her research potential and academic achievements. She presented her research titled "Interpreter perceptions of climate change and impacts in Missouri State Parks", and was recognized as a scholar during the keynote luncheon. Vidya is pursuing a Master of Science in Human Dimensions of Natural Resources (advisor **Sonja Wilhelm Stanis**) and a Graduate Certificate in Geographic Information Science, and is broadly interested in researching climate change and society.

Rebecca North has been awarded an MU Richard Wallace Faculty Incentive Grant to work on "Fish kills on MU's Dairy Farm Lakes: Control light, control oxygen".

Chasity Henson, an atmospheric science PhD student, has been invited to Boulder, CO, and the National Center for Atmospheric Research, for several weeks this summer, expenses paid. She will spend this time refining her focus in doctoral work.

Amanda Rosenberger's lab participated in the Freshwater Mollusk Conservation Society Meeting held over spring break in Cleveland, Ohio. **Matt Schrum** presented his M.S. thesis work in an oral presentation titled, "Investigating sources of bias in freshwater mussel sampling methods in the Meramec River Basin, Missouri." Postdoctoral researcher, **Garth Lindner**, and PhD student, **Kayla Key**, gave oral presentations on their collaborative work. Garth's presentation was titled, "Using hydrogeomorphic variables for habitat modeling of unionid mussel concentrations in Missouri Ozark rivers." Kayla's presentation, titled, "A hierarchical approach to mussel conservation: from niche modeling to field monitoring," won the Best Student Platform award for the meeting.

Tony Lupo was appointed as the Chief Editor for the Journal *Atmosphere – Climatology and Meteorology* Section.

Jodi Whittier has been elected to the office of Secretary for the Equal Opportunities Section of the American Fisheries Society.

PRESENTATIONS/PUBLICATIONS/RESEARCH HIGHLIGHTS

Balasubramanyam, V. (MS student HDNR), **Wilhelm Stanis, S.A., Ojewola O.** (PhD student HDNR), & **Morgan, M.** (2017, April). Interpreter perceptions of climate change and impacts in Missouri State Parks. Presentation at the National Environment and Recreation Research Symposium, Annapolis, MD.

Wagner, T., S. Midway, **J. Whittier**, J. DeWeber, and **C. Paukert**. 2017. Annual changes in seasonal river water temperatures in the eastern and western United States. *Water* 9(2):90; [doi:10.3390/w9020090](https://doi.org/10.3390/w9020090).

Stephanie E. Hampton, Aaron W. E. Galloway, Stephen M. Powers, Ted Ozersky, Kara H. Woo, Ryan D. Batt, Stephanie G. Labou, Catherine M. O'Reilly, Sapna Sharma, Noah R. Lottig, Emily H. Stanley, **Rebecca L. North**, Jason D. Stockwell, Rita Adrian, Gesa A. Weyhenmeyer, Lauri Arvola, Helen M. Baulch, Isabella Bertani, Larry L. Bowman, Jr., Cayelan C. Carey, Jordi Catalan, William Colom-Montero, Leah M. Domine, Marisol Felip, Ignacio Granados, Corinna Gries, Hans-Peter Grossart, Jutta Haberman, Marina Haldna, Brian Hayden, Scott N. Higgins, Jeff C. Jolley, Kimmo K. Kahilainen, Enn Kaup, Michael J. Kehoe, Sally MacIntyre, Anson W. Mackay, Heather L. Mariash, Robert M. McKay, Brigitte Nixdorf, Peeter Noges, Tiina Noges, Michelle Palmer, Don C. Pierson, David M. Post, Matthew J. Pruett, Milla Rautio, Jordan S. Read, Sarah L. Roberts, Jacqueline Rücker, Steven Sadro, Eugene A. Silow, Derek E. Smith,⁴¹ Robert W. Sterner, George E. A. Swann, Maxim A. Timofeyev, Manuel Toro, Michael R. Twiss, Richard J. Vogt, Susan B. Watson, Erika J. Whiteford and Marguerite A. Xenopoulos. Ecology under lake ice. *Ecology Letters*. doi: 10.1111/ele.12699.

[http://faculty.missouri.edu/~northr/pdf/north/Hampton et al-2016-Ecology Letters.pdf](http://faculty.missouri.edu/~northr/pdf/north/Hampton_et_al-2016-Ecology_Letters.pdf).

Van Sambeek, J.W.; Kabrick, John M.; Dey, Daniel C. 2017. Foliar nutrient responses of oak saplings to nitrogen treatments on alkaline soils within the Missouri River Floodplain. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 58-71.

David N. Bengston, Michael J. Dockry, and **Stephen R. Shifley**. 2017. Anticipating Cascading Change in Forests: Seeking a Deeper Understanding of the Future Consequences of Forest Management Action or Inaction. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 2-10.

Dale R. Weigel, **Daniel C. Dey**, Callie J. Schweitzer, and Chao-Ying Joanne Peng. 2017. Stump Sprout Dominance Probabilities of Five Oak Species in Southern Indiana 25 Years After Clearcut Harvesting. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 35-43.

Felix Ponder, Jr., John M. Kabrick, Mary Beth Adams, Deborah S. Page-Dumroese, and Marty F. Jurgensen. 2017. Mass Loss and Nutrient Concentrations of Buried Wood as a Function of Organic Matter Removal, Soil Compaction, and Vegetation Control in a Regenerating Oak-Pine Forest. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 45-57.

Lauren E. Cox, Justin L. Hart, Callie J. Schweitzer, and **Daniel C. Dey**. 2017. Structural Complexity and Developmental Stage After an Intermediate-scale Wind Disturbance on an Upland *Quercus* Stand. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 115-118.

Callie J. Schweitzer and **Daniel C. Dey**. 2017. Midstory Shelterwood to Promote Natural *Quercus* Reproduction on the Mid-Cumberland Plateau, Alabama: Status Four Years After Final Harvest. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 87-98.

Martin A. Spetich and **Stephen R. Shifley**. 2017. Guidelines for Sampling Aboveground Biomass and Carbon in Mature Central Hardwood Forests. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 258-264.

Kejia Pang (Postdoctoral student), Keith Woeste, and Charles Michler 2017. Cultivar Identification and Genetic Relatedness Among 25 Black Walnut (*Juglans Nigra*) Clones Based on Microsatellite Markers. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station:167-183.

Ojewola, O. (PhD student HDNR), **Morgan, M. & Wilhelm Stanis, S.A.** (2017, April). Employee Perceptions of Vulnerability & Resilience to Climate Change in Missouri State Parks & Historic Sites. Presentation at the George Wright Society Conference, Norfolk, VA.

“Ecology on the Runway: Engaging the Public in Unexpected Places” was an outreach project developed by Dr. Nalini Nadkarni at the University of Utah and **Charlie Nilon** was a participant. The project was designed to illustrate ways in which ecologists could engage the “public” in their research. Each participant was asked to send her a picture associated with their research and to write a paragraph about why the picture was relevant to the research. A designer then designed a print based on the picture and what had been written. Nalini then asked participants to choose what they would like to have made using the print. The male participants had a choice of a hooded sweatshirt, a jacket, a shirt, or pants; the female participants had a wider range of choices. The clothes (garments) were made by the costume design students in the Theater Department at the University of Utah. Each participant wrote a couple paragraphs about themselves and their research and these were read while walking the runway during an outreach session at the ESA conference. Charlie selected a hooded sweatshirt because that’s something he wears and because of the tension around young black men wearing hoodies in cities being a threat, and his research on urban wildlife and urban ecology. “Taking the hoodie back for ecology” was what was read while Charlie walked the runway and the music Nalini and the designers selected for his runway turn was “Hypnotize” by Biggie Smalls (the music only not the lyrics). See the fashion at the link: <https://attheu.utah.edu/facultystaff/ecology-on-the-runway/>

The MU Limnology Lab was recently featured in the winter issue of Elements- the Canadian Geophysical Union’s Bulletin (Volume 35, Number 1). This collaborative team science undergraduate training initiative- Linked UnderGraduate experiments on Nutrients- or LUGNuts as we like to call it has plans to continue next year. This article was co-authored by SNR undergraduate student, **Matthew Sauer** and **Rebecca North**. The article can be found here: <http://faculty.missouri.edu/~northr/media.html>.

UPCOMING EVENTS/MEETINGS/ANNOUNCEMENTS



Spring field trip/experience season has kicked off at Prairie Fork Conservation Area (PFCA). If you would like to come out and see what PFCA does please RSVP with Amber Edwards, Education Coordinator, PFCA Office (573) 254-3990, Cell Phone: [\(314\) 550-0201](tel:3145500201), Edwardsamb@missouri.edu, or join your students class as a chaperone. In the last few days we have had kindergartners, third graders, fourth graders and fifth graders from multiple schools. All have gone home muddy, wet and most with a smile on their faces. <http://www.prairiefork.missouri.edu>
(Photo by Amber Edwards)



SPRTA (Sport, Parks, Recreation and Tourism Association) student organization recently participated in a team building event at Venture Out, Mizzou's outdoor experiential education facility. Members of the organization utilized their high and low rope courses to bond and strengthen their communication and teamwork skills. In addition, SPRTA held a Profit Share Fundraiser with Chipotle on Broadway Bluffs Dr. They raised over \$100 on the evening of Monday, April 3rd!

SPOTLIGHT

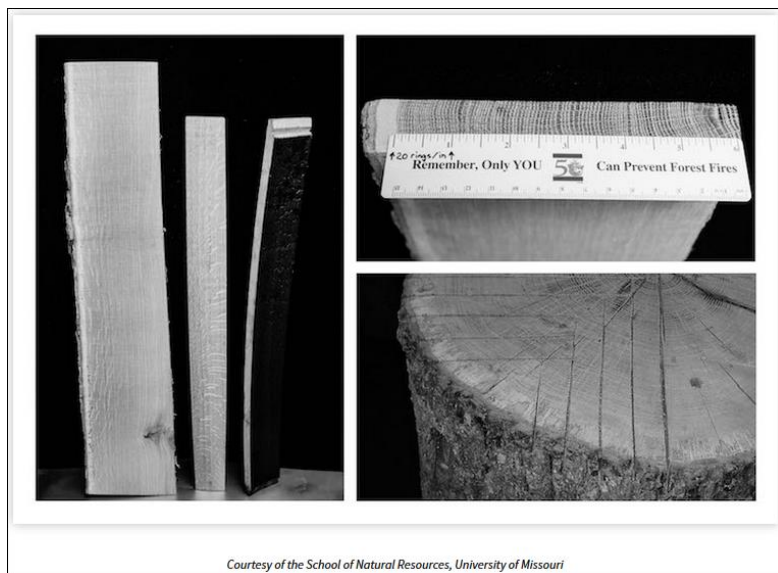


View from the Past

One of the perks of serving as Room 47 Archivist is discovering some of the hidden treasures from the past. One of my favorites thus far is the above photo (photographer is unknown) of the Missouri Cooperative Wildlife Research Unit staff and students taken in front of the Wildlife Building in 1947. Thank goodness someone had listed the names of most of the folks on the back of the photo. The one inscription that really bugged my eyes out was that for the women in the middle of the photo. It said, and I quote, "*Kath. L. Paullus – First girl student in wildlife at M.U.*" Somewhat politically incorrect, but nonetheless most interesting to have identified, and have a photo, of our first female graduate student in wildlife. (This was a mere 10 years after the unit was formed.) Katheryn did complete a Master's degree in 1947. Her thesis was entitled, "Wing-length, molt, and productivity of bobwhite quail in Missouri in 1945 and 1946". Her advisor was Rudolf Bennitt (who at that time served as the William Rucker Professor of Zoology and the Chairman of the Unit's Administrative Committee). The other individuals, from left to right on the back row are George Asher (student), Dr. William Elder (Wildlife Professor), Dr. Robert S. Campbell (Fisheries Professor), Dr. Paul D. Dalke (Unit Leader), and Dr. Rudolf Bennitt. The folks in the middle row, left to right, are Ted Shanks (student), Wayne Murray (student), Lester Burner (student), George C. Acker (student). Those in the front row, left to right, are Allen Brohn (student), the secretary Miss Katherine W. Browning, Katheryn L. Paullus (student), Kenneth Rowe (student), and Leroy Korschgen (student). As Forrest Gump said (or would have said), "Opening boxes in Room 47 is just like opening a box of chocolates; you never know that you are going to get!" Amen! Compiled by Joe G. Dillard, Room 47 Archivist, from a variety of sources.



Dr. Hank Stelzer recently contributed white oak resource information for GuildSomm’s feature article on the United States’ white oak cooperage industry. GuildSomm is a Napa Valley based nonprofit international organization for wine professionals. The link to the article is https://www.guildsomm.com/stay_current/features/b/kelli-white/posts/american-oak.



A&K Cooperage in Higbee, Missouri had been making handcrafted white oak barrels for Napa Valley wineries for quite some time. In 2015, one of those wineries, Silver Oak of Oakville, California, acquired the cooperage to ensure a stable supply of barrels for their award-winning Cabernet Sauvignon. Dr. Stelzer regularly takes students to Higbee where they learn the entire manufacturing process from stand tree to finished barrel. This coming fall, Hank in cooperation with Silver Oak, Barrel 53 Cooperage (also located

in Higbee), and the University’s Grape and Wine Institute will sponsor a “Wood to Wine” tour that will take interested individuals through the same journey.

This **Weekly Reader** will be distributed electronically every Friday (except during breaks). Please send announcements to Cindy Greenwood, Editor (greenwoodci@missouri.edu) by Thursday @ noon. If you’d like to unsubscribe from the **Weekly Reader**, please email Cindy. Thanks to Laura Hertel for the **Weekly Reader** Tiger logo.